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FILED 2/11/04, RECEIVED BY PTO 2/17/04

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449A/PTO				Complete If Known	
				Application Number	10/054,749
				Filing Date	January 18, 2002
				First Named Inventor	Stork, David G.
				Group Art Unit	2153
				Examiner Name	Burgess, Glenton B.
Sheet	1	of	3	Attorney Docket Number	15358-006710US

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
AB	AA	RE 31,287		Patil	06-21-1983	
	AB	4,068,214		Patil	01-10-1978	
	AC	4,644,481		Jennings	02-17-1987	
	AD	4,700,187		Furtek	10-13-1987	
	AE	4,868,605		Nakano et al.	09-12-1989	
	AF	5,029,080		Otsuki	07-02-1991	
	AG	5,257,363		Shapiro et al.	10-26-1993	
	AH	5,283,896		Temmyo et al.	02-01-1994	
	AI	5,291,427		Loyer et al.	03-01-1994	
	AJ	5,555,179		Koyama et al.	09-10-1996	
	AK	5,742,283		Kim	04-21-1998	
	AL	6,002,850		Simino et al.	12-14-1999	
	AM	6,011,830		Sasin et al.	01-04-2000	
	AN	6,067,357		Kishinsky et al.	05-23-2000	
	AO	6,178,239	B1	Kishinsky et al.	01-23-2001	
	AP	6,225,998	B1	Okita et al.	05-01-2001	
	AB	6,256,598	B1	Park et al.	07-03-2001	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
AB	AR	DE	4301391	A1	Vetterkind, D.	08-11-1994		
	AS	DE	18621082	A1	Siemens, A.G.	11-27-1997		
	AT	JP	7160773	A	Omron, K.K.	08-23-1995		
	AU	JP	10049208	A	Kobe Steel, Ltd.	02-20-1998		
	AV	JP	10058288	A	Toshiba, K.K.	03-03-1998		
	AW	JP	10124110	A	Ebara Corp.	05-15-1998		
	AX	JP	10240714	A	Toshiba, K.K.	09-11-1998		
AB	AY	JP	11328259	A	Nippon Steel Corp.	11-30-1999		

Examiner Signature	/Ajay Bhatia/ (06/07/2006)	Date Considered
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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

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of

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Complete If Known

Application Number	10/054,749
Filing Date	January 18, 2002
First Named Inventor	Stork, David G.
Group Art Unit	2153
Examiner Name	Burgess, Glenton B.
Attorney Docket Number	15358-006710US

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
AB	AZ	ACETO, L., and HENNESSY, M., "Adding Action Refinement to a Finite Process Algebra," Information and Computation, 115, pp. 179-247 (1994).	
	BA	ANONYMOUS, "Petri net approach to checking software structural change correctness in operation – using changed region analysis to identify parts still needing further checking using set of linear expressions in logic relationship," RD 348009 A, p. 225, (4-10-1993).	
	BB	BAI, YUE-BIN, LIU, YI, MA, JIAN-SHE, and ZHENG, SHOU-QI, "Research and Implementation of Distributed Security Administration System for Remote Access Based on NAS," Mini-Micro Systems, Vol. 21, No. 11, pp. 1197-2000 (Nov. 2000) English abstract only.	
	BC	BAUDERON, M. and COURCELLE, B. "Graph Expressions and Graph Rewriting," Mathematical Systems Theory, Vol. 20, pp. 83-127, (1987).	
	BD	CHUN, Yang, "Application and Research of a User Name and Password Authentication Based on SOCKS V5," Journal of University of Electronic Science and Technology of China, Vol. 30, No. 2, pp. 162-165 (Apr. 2001) English abstract only.	
	BE	DOYLE, E.M., TAVERES, S.E., and MEIJER, H., "Computer Analysis of Cryptographic Protocols Using Colored Petri Nets," 18th Bienniel Symposium on Communication Symposium Proceedings, pp. 194-199 (June, 1996).	
	BF	EL-HADIDI, M.T., HEBAZI, N.H., and ASLAN, H.K., "Implementation of a Hybrid Encryption Scheme for Ethernet," Proceedings of IEEE Symposium on Computers and Communications, Alexandria, Egypt, pp. 150-156 (June 1995)	
	BG	GENRICH, H.J., and LAUTENBACH, K., "System Modelling With High-Level Petri Nets," Theoretical Computer Science, 13, pp. 109-136, (1981).	
	BH	JUSZCZYSZYN, K., "Secure Information Flow Model for Corporate Network," Information Systems Architecture and Technology ISAT 2000, pp. 272-279, (2000).	
	BI	KARRI, R., "A Security Imbedded Authentication Protocol," IEEE INFOCOM '88 – The Conference on Computer Communications Proceedings, pp. 1105-1109 (March 1988).	
	BJ	KRAMER, B., "Rule-Enhanced Petri Nets for Software Process Modeling," SEKE '94 – The 6th International Conference on Software Engineering and Knowledge Engineering, pp. 493-500 (June 1994).	
	BK	MILNER, R., "Communicating and Mobile Systems: The π - Calculus," Cambridge University Press, Cambridge, UK, pp. 1-161, (1999).	
	BL	MIRSKY, E., and DEHON, A., "MATRIX: A Reconfigurable Computing Architecture with Configurable Instruction Distribution and Deployable Resources," Proceedings of IEEE Workshop of FPGAs for Custom Computing Machines, pp. 157-166, (1998).	
	BM	MURATA, T., "Petri nets: Properties, Analysis and Applications," Proceedings of the IEEE, Vol. 77, No. 4, pp. 541-580, (April 1989).	
AB	BN	MORTON, C.M., ROBART, L.C., and TAVERES, S.E., "Decomposition Techniques for Cryptographic Protocol Analysis," 1994 Canadian Conference on Electrical and Computer Engineering, pp. 335-339, (September 1994).	

Examiner Signature	/Ajay Bhatia/ (06/07/2006)	Date Considered	
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Substitute for form 1449B/PTO			<i>Complete If Known</i>		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT			Application Number	10/054,749	
(use as many sheets as necessary)			Filing Date	January 18, 2002	
			First Named Inventor	Stork, David G.	
			Group Art Unit	2153	
			Examiner Name	Burgess, Glenton B.	
Sheet	3	of	3	Attorney Docket Number	15358-006710US

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
AB	BO	OHTA, A., OHBA, T., and HISAMURA, T., "On Liveness of Subclasses of Petri Nets with Permission or Inhibitor Arcs," Trans. of the Society of Instrument and Control Engineers, Vol. 31, No. 10, pp. 1722-1729 (1995).	
	BP	SCHMIDT, H.W., "Prototyping and Analysis of Non-Sequential Systems Using Predicate-Event Nets," Journal Systems Software, Vol. 15, pp. 43-62, (1991).	
	BQ	VALETTE, R., "Analysis of Petri Nets By Stepwise Refinements," Journal of Computer and System Sciences, Vol. 18, No. 1, pp. 35-48, (1979).	
	BR	VAN DER AALST, WIL M.P., "Interorganizational Workflows: An approach based on message sequence charts and Petri Nets," website address: http://trmitwww.tue.nl/staff/wvdaals/ Publications/p70.pdf , from In Proceedings of PROLAMAT'98, IFIP Transactions, Trento, pp. 1-43, (1998).	
	BS	VAN DER AALST, WIL M.P., "Interorganizational Workflows: An approach based on message sequence charts and Petri Nets," Systems Analysis – Modelling – Simulation (SAMS), Vol. 34, pp. 335-367, (1999).	
	BT	VAN DER AALST, WIL M.P., "Woflan: a Petri-Net-Based Workflow Analyzer, Vol. 35, No. 3, pp. 345-357, (1999).	
	BU	VAN DER AALST, WIL M.P., "Three Good Reasons for Using a Petri-Net-Based Workflow Management System," Information and Process Integration in Enterprises: Rethinking Documents, Kluwer Academic Publishers, Norwell, MA, pp. 161-182 (1998).	
	BV	VAN GLABBEK, R., and GOLTZ, U., "Refinement of Actions in Causality Based Models," Proceedings of the Rex Workshop – Stepwise Refinement of Distributed Systems Models, Formalisms, Correctness, Mook, The Netherlands, pp. 267-300, (May 29 – June 2, 1989).	
	BW	VAN GLABBEK, R., and WEIJLAND, P., "Branching Time and Abstraction in Bisimulation Semantics," Journal of the ACM, Vol. 43, No. 3, pp. 555-600 (May 1996).	
AB	BX	WEITZ, W., "SGML Nets: Integrating Document and Workflow Modeling," Proceedings of the 31st Annual Hawaii International Conference on System Sciences, IEEE, pp. 185-194 (1998).	

Examiner Signature	/Ajay Bhatia/ (06/07/2006)	Date Considered	
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PTO/SB/08B (08-03)

INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				<i>Complete if Known</i>	
Sheet	2	of	2	Application Number	10/054,749
				Filing Date	January 18, 2002
				First Named Inventor	Stork, David G.
				Art Unit	2142
				Examiner Name	Blair, D. B.
				Attorney Docket Number	015358-006710US

Examiner Signature	/Ajay Bhatia/ (06/07/2006)	Date Considered	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

2 of 2

Complete If Known

Application Number	10/054,749
Filing Date	January 18, 2002
First Named Inventor	Stork, David G.
Art Unit	2171
Examiner Name	Unassigned

Attorney Docket Number 015358-006710US

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
AB	AB	BRAUER et al., "Survey of Behaviour and Equivalence Preserving Refinements of Petri Nets," Grzegorz Rozenberg, eds., in Advances in Petri Nets 1990, No. 483, in Lecture Notes in Computer Science (LNCS), PAGES 1-46.	
	AC	GENRICH et al., "Predicate / Transition Nets," from Lecture Notes in Computer Science, Goos and Hartmanis eds., vol. 254, Petri Nets: Central Models and Their Properties, Brauer et al., eds., pages 208-247, Springer-Verlag (1987).	
	AD	KOHLER et al., "Modeling the Structure and Behaviour of Petri Net Agents," from Lecture Notes in Computer Science, vol. 2075, pages 224-241 (2001), Colom & Koutny eds., Springer-Verlag (2001).	
	AE	SMITH, E., "Principles of High-Level Net Theory," from Lecture Notes in Computer Science, vol. 1491, pages 174-210 (1998), Reisig & Rozenberg Eds., Springer-Verlag (1998).	
AB	AF	VALK, R., "Petri Nets as Token Objects, An Introduction to Elementary Object Nets," from Lecture Notes in Computer Science, vol. 1420, pages 1-25, Springer-Verlag (1989).	

Examiner Signature	/Ajay Bhatia/ (06/07/2006)	Date Considered	
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